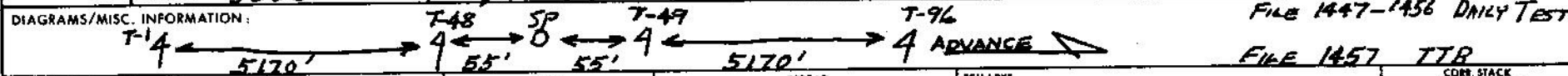




LAND SEISMIC RECORDING LOG

	CLIENT: Husky	PROSPECT: NPR - A	AREA:	LINE NO: 711					
	PARTY NO:	INS/ENG: Luster - Trosch		DATE: 4 DAY 22 YR 80					
INSTRUMENT (9-TRACK)	<input checked="" type="checkbox"/> 1 SYSTEM <input type="checkbox"/> 2 SYSTEMS	<input type="checkbox"/> 1-24 & 25-48 <input checked="" type="checkbox"/> 1-48 & 49-96	ODDS <input checked="" type="checkbox"/> EVENS	TYPE: <input type="checkbox"/> DFS <input type="checkbox"/> DFS <input checked="" type="checkbox"/> OTHER	<input checked="" type="checkbox"/> 9 TRACK <input type="checkbox"/> 2 TRACK	FORMAT: B	<input checked="" type="checkbox"/> GAPPED <input type="checkbox"/> UNGAPPED	PACKING DENSITY: (L) <input type="checkbox"/> 356 BPI (H) <input type="checkbox"/> 712 BPI <input type="checkbox"/> 1600 BPI	
	NO. BYTES IN HEADER REC: 228	NO. BYTES IN RECORD ID: 24	NO. BYTES PER SCAN: 254	RECORD NUMBERS: <input type="checkbox"/> DEC. <input type="checkbox"/> OCT.	GAIN CONSTANT: _____ db	INPUT IMPEDANCE: _____ ohms.			
CONFIGURATION (MAG TAPE)	FIELD TRACE NOS.: 1-96	DATA CHANNEL NOS.: 5-100 (ON MAG TAPE)			AUXILIARY DATA: 11 -fw (2) (3) SPS 4B (5) (6) (7)	AUXILIARY CHANNEL NOS.: 0 1 2			
PARAMETER	RECORD LENGTH: 8 sec.	SAMPLE RATE: 2 ms. <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms.	GAIN MODE: <input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> FINAL	<input type="checkbox"/> MANUAL <input type="checkbox"/> OPERATE	FILTERS: FREQ. 8 LO CUT 18 HZ SLOPE 70	HI CUT _____ HZ SLOPE _____	NOTCH FILTER: <input checked="" type="checkbox"/> IN <input type="checkbox"/> OUT		
DISPLAY	MODE: <input type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DEFLOAT <input type="checkbox"/> DIRECT	INITIAL GAIN: 0 db	TRIP SENS: _____	5 db	POLARITY CONVENTION: <input type="checkbox"/> PRESSURE INCREASE ON GEOPHONE. <input type="checkbox"/> NEGATIVE <input type="checkbox"/> POSITIVE	NUMBERS ON MAG TAPE: <input type="checkbox"/> DOWNBREAK <input type="checkbox"/> UPBREAK	ON DISPLAY: <input type="checkbox"/> DOWNBREAK <input type="checkbox"/> UPBREAK		
CFS I	TYPE STACK:	GATE LENGTH:	RECORD REJECTION:	NOISE REDUCTION:	NOISE THRESHOLD:	CORR. SCALING:	R.C.U. NORM./ALT SW.		
SOURCE	TYPE: <input checked="" type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER	PATTERN:	NO. OF POSITIONS:	INLINE SPACING:	LATERAL SPACING:	STAGGER:	LENGTH:	WIDTH:	LATERAL OFFSET:
RECEIVER	TYPE: G.S.C. - 20 D	RESISTANCE: 260 ohms	NO. OF ELEMENTS: 18	STAGGER:	INLINE SPACING: 5.6	LENGTH:	WIDTH:	LATERAL OFFSET:	
SPREAD	NO. OF GROUPS: 96	GROUP INTERVAL: 110'	SHOTPOINT INTERVAL: 880'	FOLD: 6	OFFSET GROUP 48/96: 5225	DIRECTION OF PROGRESSION: E.	LEADING GROUP: #96		



SHOTPOINT	TR. 10		TR. 10		SHOT		SPREAD		REMARKS	CORR. STACK					
	REEL NO.	REC.	REEL NO.	REC.	SIZE	DEPTH	NO.	OFFSET		DIR.	COP SWITCH	LINE GROUPS	TR. 10	TR. 10	TR. 10
100	981.108	1458			110	90	1			1	7A+1 - 105+8				
101		1459			110	90	2			9	95+1 - 106+8				
102		1460			110	90	3			17	96+1 - 107+8				
103		1461			110	90	4			25	97+1 - 108+8				
104		1462			110	90	5			33	98+1 - 109+8				
105		1463			110	90	6			41	99+1 - 110+8				
106		1464			110	90	7			49	100+1 - 111+8				
107		1465			110	90	8			9	101+1 - 112+8				
108		1466			110	90	9			17	102+1 - 113+8				
109		1467			110	90	10			25	103+1 - 114+8				
110		1468			110	90	11			33	104+1 - 115+8				
111		1469			110	90	12			41	105+1 - 116+8				
112		1470			110	90	13			1	106+1 - 117+8				
113		1471			110	90	14			9	107+1 - 118+8				
114		1472			110	90	15			17	108+1 - 119+8				
115		1473			110	90	16			25	109+1 - 120+8				
116		1474			110	90	17			33	110+1 - 121+8				
117		1475			110	90	18			41	111+1 - 122+8				
118		1476			110	90	19			49	112+1 - 123+8				
119		1477			110	90	20			9	113+1 - 124+8				

LAND SEISMIC RECORDING LOG

	CLIENT: HUSKY	PROSPECT: NPR-A	AREA:	LINE NO: 711	
PARTY NO: 1182		INST. ENG: LUSTER / I. PISCH		DATE: MO 4 DAY 23 YR 80	

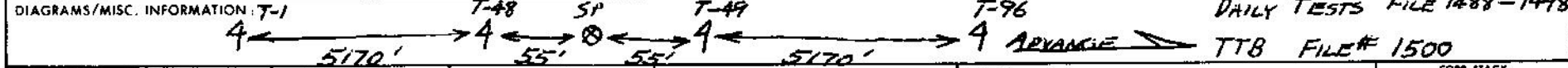
INSTRUMENT (9-TRACK)	<input checked="" type="checkbox"/> 1 SYSTEM <input checked="" type="checkbox"/> 2 SYSTEMS	<input type="checkbox"/> 1-24 & 25-48 <input checked="" type="checkbox"/> 1-48 & 49-96	TYPE: <input type="checkbox"/> DFS I <input type="checkbox"/> DFS II <input checked="" type="checkbox"/> DFS III <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> 1 TRACK <input type="checkbox"/> 2 TRACK	FOPMAT: B SEG:	<input type="checkbox"/> GAPPED <input type="checkbox"/> UNGAPPED	PACKING DENSITY: (10) <input type="checkbox"/> 336 BPI <input type="checkbox"/> 800 BPI (11) <input type="checkbox"/> 712 BPI <input checked="" type="checkbox"/> 1000 BPI
NO. BYTES IN HEADER REC: 228		NO. BYTES IN RECORD ID: 24		NO. BYTES PER SCAN: 254		RECORD NUMBERS: <input checked="" type="checkbox"/> DEC. <input type="checkbox"/> OCT.	
GAIN CONSTANT: 36 db		INPUT IMPEDANCE: 2000 ohms.					

CONFIGURATION (MAG TAPE)	FIELD TRACE NOS.: 1-96	AUXILIARY DATA: (1) TW (2) SDS (3) TA	AUXILIARY CHANNEL NOS.: 0 1 2	(4) (5) (6) (7)
PARAMETER	DATA CHANNEL NOS.: 5-100 [ON MAG TAPE]	FILTERS: FREQ 8 LO CUT 18 HI CUT 70 NOTCH <input checked="" type="checkbox"/> IN <input type="checkbox"/> OUT		
DISPLAY	RECORD LENGTH: 8 sec. MODE: <input checked="" type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> DEFLOAT <input type="checkbox"/> DIRECT	SAMPLE RATE: <input checked="" type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms. <input checked="" type="checkbox"/> 2 ms. <input type="checkbox"/> 5 ms.	GAIN MODE: <input type="checkbox"/> INITIAL <input type="checkbox"/> MANUAL <input type="checkbox"/> OPERATE <input checked="" type="checkbox"/> FINAL	
CFS I	TYPE STACK: GATE LENGTH:	INITIAL GAIN: db TRIP SENS: db	POLARITY CONVENTION: <input type="checkbox"/> NEGATIVE <input type="checkbox"/> POSITIVE } NUMBERS ON MAG TAPE <input type="checkbox"/> DOWNBREAK <input type="checkbox"/> UPBREAK } ON DISPLAY	

SOURCE	TYPE: <input type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER	PATTERN: CNG/ MOLE:	NO. OF POSITIONS: SWEEP POSITION:	INLINE SPACING: SWEEP START:	LATERAL SPACING: SWEEP END:	STAGGER: SWEEP LENGTH:	LENGTH: SWEEP TAPER:	WIDTH: PHASE COMP:	LATERAL OFFSET:
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RECEIVER	PATTERN: CONNECTION:	RESISTANCE: ohms	NO. OF ELEMENTS: STAGGER:	INLINE SPACING: LENGTH:	LATERAL SPACING: WIDTH:	LATERAL OFFSET:
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SPREAD	NO. OF GROUPS: OFFSET GROUP 1:	GROUP INTERVAL: OFFSET GROUP:	SHOTPOINT INTERVAL: OFFSET GROUP:	FOLD: OFFSET GROUP 48/96:	DIRECTION OF PROGRESSION: LEADING GROUP:
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LAND SEISMIC RECORDING LOG



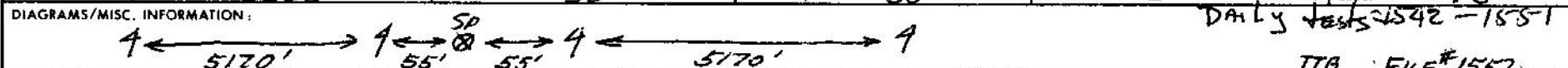
CLIENT: HUSKY	PROSPECT: NPR-A	AREA:	LINE NO: 711
PARTY NO: 1182	INST. ENG: LUSTER / LIPPISCH		DATE: MO 4 DAY 23 YR 80

SHOTPOINT	TR		TR		SHOT					SPREAD		REMARKS	CORP. STACK					
	TR	IN	TR	IN	REEL NO.	REC.	SIZE	DEPTH	NO.	OFFSET	DIR.		CDP SWITCH	LINE GROUPS		TR 1-88	TR 48-96	
	MT	REC.	MT	REC.	MT	REC.	MT	REC.	MT	REC.	MT		REC.	MT	REC.	MT	REC.	
150	9811108	1521					110	9021	60	S	17	144+1	-	155+8				
151		1522					110	9022	60	S	25	145+1	-	156+8				
152		1523					110	9023			33	146+1	-	157+8				
153		1524					110	9024			41	147+1	-	158+8				158 TO 159 = 990'
154		1525					110	9025			49	148+1	-	159+8				
155		1526					110	9026			9	149+1	-	160+8	157			T-76 DEAD
156		1527					110	9027			17	150+1	-	161+8				T-80 DEAD
157		1528					110	9028			25	151+1	-	162+8				
158		1529					110	9029			33	152+1	-	163+8				
159		1530					110	9030			41	153+1	-	164+8				
160		1531					110	9031			1	154+1	-	165+8				
161		1532					110	9032			9	155+1	-	166+8	163			
162		1533					110	9033			17	156+1	-	167+8				
163		1534					110	9034			25	157+1	-	168+8				
164		1535					110	9035			33	158+1	-	169+8				
165		1536					110	9036			41	159+1	-	170+8				
166		1537					110	9037			49	160+1	-	171+8				
167		1538					110	9038			9	161+1	-	172+8	169			T-74 DEAD T-42 DEAD
168		1539					110	9039			17	162+1	-	173+8				T-3 DEAD
169		1540					110	9040	60	S	25	163+1	-	174+8				
170		1541					110	9041			33	164+1	-	175+8				

LAND SEISMIC RECORDING LOG

Page 1 of 3

CLIENT: HUSKY		PROSPECT: NPR-A		AREA:		LINE NO: 711	
PARTY NO: 1182		INST. ENG: LUSTER / IPPISCH		DATE: MO 4 DAY 24 YR 80			
INSTRUMENT: <input checked="" type="checkbox"/> 1 SYSTEM <input type="checkbox"/> 2 SYSTEMS		NO. BYTES IN HEADER REC: 228		NO. BYTES IN RECORD ID: 24		NO. BYTES PER SCAN: 254	
CONFIGURATION (MAG TAPE):		FIELD TRACE NOS.: 1-96		AUXILIARY DATA:		AUXILIARY CHANNEL NOS.: 0 1 2	
PARAMETER: RECORD LENGTH: 8 sec		SAMPLE RATE: <input checked="" type="checkbox"/> 1 ms <input type="checkbox"/> 4 ms		GAIN MODE: <input type="checkbox"/> INITIAL <input type="checkbox"/> MANUAL <input type="checkbox"/> FINAL <input type="checkbox"/> OPERATE		FILTERS: FREQ: 8 LO CUT: 18 HI CUT: 128	
DISPLAY: MODE: <input checked="" type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DEFLOAT <input type="checkbox"/> DIRECT		INITIAL GAIN: 0 db		TRIP SENS: 0 db		POLARITY CONVENTION: Bs PRESSURE INCREASE ON GEOPHONE: <input type="checkbox"/> NEGATIVE <input checked="" type="checkbox"/> POSITIVE	
SOURCE: TYPE: <input checked="" type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER		PATTERN: INLINE		NO. OF POSITIONS: 1		INLINE SPACING: 5.6	
RECEIVER: TYPE: GSC 20 D		PATTERN: INLINE		NO. OF ELEMENTS: 18		INLINE SPACING: 5.6	
SPREAD: NO. OF GROUPS: 96		GROUP INTERVAL: 110'		SHOTPOINT INTERVAL: 880'		FOLD: 6	



SHOTPOINT	TR 1		TR 2		SHOT		SPREAD		REMARKS	CORE STACK						
	REEL NO.	REC.	REEL NO.	REC.	SIZE	DEPTH	NO.	OFFSET		CDP SWITCH	LINE GROUPS		TR 1-1	TR 1-2	TR 1-3	TR 1-4
1771	9811109	1553			110	90	1		17	165+1	-	176+8				
1772		1554			110	90	2		25	166+1	-	177+8				
1773		1555			110	90	3		33	167+1	-	178+8				
1774		1556			110	90	4		41	168+1	-	179+8				
1775		1557			110	90	5		49	169+1	-	180+8				
1776		1558			110	90	6		9	170+1	-	181+8				
1777		1559			110	90	7		17	171+1	-	182+8				
1778		1560			110	90	8		25	172+1	-	183+8				
1779		1561			110	90	9		33	173+1	-	184+8				
1780		1562			110	90	10		41	174+1	-	185+8				
1781		1563			110	90	11	60 so	1	175+1	-	186+8				+92 dead
1782		1564			110	90	12		9	176+1	-	187+8				
1783		1565			110	90	13		17	177+1	-	188+8				
1784		1566			110	90	14		25	178+1	-	189+8				
1785		1567			110	90	15		33	179+1	-	190+8				+92 dead
1786		1568			110	90	16		41	180+1	-	191+8				
1787	9811110	1569			110	90	17		49	181+1	-	192+8				tape change (4-pair)
1788		1570			110	90	18		9	182+1	-	193+8				fid t-1 & t-81 dead
1789		1571			110	90	19		17	183+1	-	194+8				t-83
1790		1572			110	90	20		25	184+1	-	195+8				

LAND SEISMIC RECORDING LOG



CLIENT: Husky PROSPECT: NPR-A AREA: _____



PARTY NO: 1182 INST. ERG: Just - Topack LINE NO: 711

DATE: MO 4 DAY 24 YR 80

SHOTPOINT	TR. 1		TR. 2		SHOT			SPREAD			REMARKS	CORR. STACK			
	REEL NO.	REC.	REEL NO.	REC.	SIZE	DEPTH	NO. OFFSET	DIR.	CDP SWITCH	LINE GROUPS		HT	HT	REC.	REC.
191	1572				110	9021			33	185+1 - 196+8					
192	1574				110	9022			41	186+1 - 197+8					
193	1575				110	9023			49	187+1 - 198+8					
194	1576				110	9024			9	188+1 - 199+8	196			T-28 DEAD	
195	1577				110	9025			17	189+1 - 200+8				T-20 "	
196	1578				110	9026			25	190+1 - 201+8				T-12 "	
197	1579				110	9027			33	191+1 - 202+8				T-9 "	
198	1580				110	9028			41	192+1 - 203+8					
199	1581				110	9029			49	193+1 - 204+8					
200	1582				110	9030			9	194+1 - 205+8	207				
201	1583				110	9031			17	195+1 - 206+8					
202	1584				110	9032		60 S	25	196+1 - 207+8					
203	1585				110	9033			33	197+1 - 208+8				209-214 WINDY RIDGE	
204	1586				110	9034			41	198+1 - 209+8				T-96 DEAD	
205	1587				110	9035			1	199+1 - 210+8	208			T-3 DEAD	
206	1588				110	9036			9	200+1 - 211+8				TAPE CHANGE	
207	1589				110	9037			17	201+1 - 212+8					
208	1590				110	9038			25	202+1 - 213+8					
209	1591				110	9039	220	E	33	203+1 - 214+8					
210	1592				110	9040			41	204+1 - 215+8					
211	1594				110	9041			49	205+1 - 216+8				FILE 1593 MISFIRE	
212	1595				110	9042			9	206+1 - 217+8	214				
213	1596				110	9043			17	207+1 - 218+8					
214	1597				110	9044			25	208+1 - 219+8					
215	1598				110	9045			33	209+1 - 220+8					
216	1599				110	9046			41	210+1 - 221+8				T-89 DEAD	
217	1600				110	9047			1	211+1 - 222+8	220			T-8 DEAD	
218	1601				110	9048			9	212+1 - 223+8					
219	1602				110	9049	650	S	17	213+1 - 224+8					
220	1603				110	9050	110	E	25	214+1 - 225+8					
221	1604				110	9051			33	215+1 - 226+8				T-16 DEAD T-89 THRU 96 DEAD	
222	1605				110	9052			41	216+1 - 227+8					
223	1606				110	9053	110	E	49	217+1 - 228+8					
224	1607				110	9054			9	218+1 - 229+8	214			TAPE CHANGE	
225	1609				110	9055			17	219+1 - 230+8				1608 MISFIRE	
226	1610				110	9056			25	220+1 - 231+8					

LAND SEISMIC RECORDING LOG

1/2

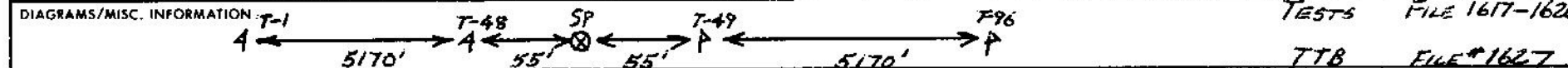
	CLIENT: HUSKY	PROSPECT: NPR-A	AREA:	LINE NO: 711	
PARTY NO: 1182	INST. ENG: LUSTER / IPPISCH			DATE: MO 4 DAY 25 YE 80	

INSTRUMENT (9-TRACK)	<input checked="" type="checkbox"/> 1 SYSTEM <input checked="" type="checkbox"/> 2 SYSTEMS <input type="checkbox"/> 1-24 & 25-48 <input type="checkbox"/> 1-48 & 49-96 <input checked="" type="checkbox"/> EVENS	TYPE: <input type="checkbox"/> DFS III <input type="checkbox"/> DFS IX <input checked="" type="checkbox"/> DFS X <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> 9 TRACK <input type="checkbox"/> 21 TRACK	FORMAT: SEG B <input checked="" type="checkbox"/> GAPPED <input type="checkbox"/> UNGAPPED	PACKING DENSITY: (L) <input type="checkbox"/> 356 BPI (M) <input type="checkbox"/> 712 BPI <input type="checkbox"/> 800 BPI <input checked="" type="checkbox"/> 1600 BPI
	NO. BYTES IN HEADER REC: 228	NO. BYTES IN RECORD ID: 24	NO. BYTES PER SCAN: 254	RECORD NUMBERS: <input checked="" type="checkbox"/> DEC <input type="checkbox"/> OCT	GAIN CONSTANT: 36 db
	FIELD TRACE NOS.: 1-96			AUXILIARY DATA: (1) TW (2) SFS (3) TR	
	DATA CHANNEL NOS.: 5-100 (ON MAG TAPE)			AUXILIARY CHANNEL NOS.: 0 1 2	

PARAMETER	RECORD LENGTH: 8 sec.	SAMPLE RATE: <input type="checkbox"/> 1 ms <input type="checkbox"/> 4 ms <input checked="" type="checkbox"/> 2 ms <input type="checkbox"/> 8 ms	GAIN MODE: <input type="checkbox"/> INITIAL <input type="checkbox"/> MANUAL <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> IFF <input type="checkbox"/> OPERATE	FILTERS: FREQ 8 LO CUT HZ SLOPE 18 HI CUT HZ SLOPE 70 NOTCH FILTER: <input type="checkbox"/> IN <input type="checkbox"/> OUT	INPUT IMPEDANCE: 2000 ohms
DISPLAY	MODE: <input checked="" type="checkbox"/> AOC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DEFLOAT <input type="checkbox"/> DIRECT	INITIAL GAIN: 0 db	TRIP SENS: _____ db	POLARITY CONVENTION: Pos PRESSURE INCREASE ON GEOPHONE: <input type="checkbox"/> NEGATIVE <input checked="" type="checkbox"/> POSITIVE	NUMBERS ON MAG TAPE: <input checked="" type="checkbox"/> DOWNBREAK <input type="checkbox"/> UPBREAK ON DISPLAY
CFS I	TYPE STACK: STAND ALONE DFS	GATE LENGTH: _____	RECORD REJECTION: _____	NOISE REDUCTION: _____	NOISE THRESHOLD: _____
SOURCE	TYPE: <input checked="" type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER	PATTERN: INLINE	NO. OF POSITIONS: 1	INLINE SPACING: _____	LATERAL SPACING: _____
	CHG/ HOLE: 110	HOLE DEPTH: 90	SWEEP POSITION: _____	SWEEP START: _____	SWEEP END: _____

RECEIVER	TYPE: GSC 20-D	PATTERN: INLINE	NO. OF ELEMENTS: 18	INLINE SPACING: 5.6 ft.	LATERAL SPACING: _____
	CONNECTION: SGR/PAR	RESISTANCE: 560 ohms	STAGGER: _____	LENGTH: _____	WIDTH: _____
					LATERAL OFFSET: _____

SPREAD	NO. OF GROUPS: 96	GROUP INTERVAL: 110'	SHOTPOINT INTERVAL: 880'	FOLD: 6	DIRECTION OF PROGRESSION: E
	OFFSET GROUP 1: 5225'	OFFSET GROUP 48: 55'	OFFSET GROUP 92: 55'	OFFSET GROUP 96: 5225'	LEADING GROUP: 96



SHOTPOINT	TR 1 to		TR 2 to		SHOT			CDP SWITCH	SPREAD		REMARKS	CORR. STACK			
	REEL NO.	REC.	REEL NO.	REC.	SIZE	DEPTH	NO. OFFSET		DIR.	LINE GROUPS		TR 1-28	TR 29-48	TR 49-72	TR 73-96
233	1628	1628			110	90	11		9	227+1 - 238+8					
234	1629	1629			110	90	2		17	228+1 - 239+8					
235	1630	1630			110	90	3		25	229+1 - 240+8					
236	1631	1631			110	90	4		33	230+1 - 241+8					
237	1632	1632			110	90	5	N	41	231+1 - 242+8					
238	1633	1633			110	90	6	S	49	232+1 - 243+8					
239	1634	1634			110	90	7		9	234+1 - 244+8					
240	1635	1635			110	90	8		17	234+1 - 245+8					
241	1637	1637			110	90	9		25	235+1 - 246+8					
242	1638	1638			110	90	10		33	236+1 - 247+8					
243	1639	1639			110	90	11		41	237+1 - 248+8					
244	1640	1640			110	90	12		49	238+1 - 249+8					
245	1641	1641			110	90	13		9	239+1 - 250+8					
246	1642	1642			110	90	14		17	240+1 - 251+8					
247	1643	1643			110	90	15		25	241+1 - 252+8					
248	1644	1644			110	90	16		33	242+1 - 253+8					
249	1645	1645			110	90	17		41	243+1 - 254+8					
250	1646	1646			110	90	18	W	49	244+1 - 255+8					
251	1647	1647			110	90	19		9	245+1 - 256+8					
252	1648	1648			110	90	20		17	246+1 - 257+8					

tape change (1634 mistake)

